

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>LEO 003 PA</b>
INTERNATIONAL APPLICATION NO. <b>PCT/DE2004/002638</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/580,361</b>
INTERNATIONAL FILING DATE <b>11/29/2004</b>		PRIORITY DATE CLAIMED <b>11/28/2003</b>
TITLE OF INVENTION <b>Production of Semiconductor Substrates With Buried Layers by Joining (Bonding) Semiconductor Wafers</b>		
APPLICANT(S) FOR DO/EO/US <b>Roy Knechtel and Andrej Lenz</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> </ol>		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
10/580,361		PCT/DE2004/002638		LEO 003 PA	
20. Other items or information: Express Mail Certificate; Filing of Requirements, with copy of Notification of Missing Requirements; check for \$730; Return Receipt Postcard					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300				\$	
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200				\$	
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b))				\$	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500				\$	
TOTAL OF 21, 22 and 23 =				0	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100 =	/50 =			x \$250	\$
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	28 - 20 =	8	x \$ 50	\$	400
Independent claims	4 - 3 =	1	x \$200	\$	200
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	600
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$	600
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$ 130
TOTAL NATIONAL FEE =				\$	730
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
TOTAL FEES ENCLOSED =				\$	730
				Amount to be refunded:	\$ 400.00 OP
				Amount to be charged	\$ 200.00 OP
					\$ 130.00 OP

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- a. ☒ A check in the amount of \$ 730 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 502164 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 502164. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer Number 29673  
Stevens & Showalter LLP  
7019 Corporate Way  
Dayton OH 45459-4238



SIGNATURE

Richard C. Stevens

NAME

28,046

REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Roy Knechtel and Andrej Lenz  
International Appln. No. : PCT/DE2004/002638  
U.S. Application No. : 10/580,361  
International Filing Date : 11/29/2004  
Title : PRODUCTION OF SEMICONDUCTOR  
SUBSTRATES WITH BURIED LAYERS BY JOINING  
(BONDING) SEMICONDUCTOR WAFERS  
Docket : LEO 003 PA

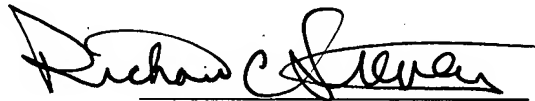
MS PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria VA 22313-1450

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Sir:

"Express Mail" Mailing Label Number EQ916963182US  
Date of Deposit April 18, 2007

I hereby certify that this paper or fee is being deposited with the  
United States Postal Service "Express Mail Post Office to Addressee"  
service under 37 CFR 1.10 on the date indicated above and is  
addressed to MS PCT, Commissioner for Patents, PO Box 1450,  
Alexandria VA 22313-1450.



Richard C. Stevens  
Reg. #28,046

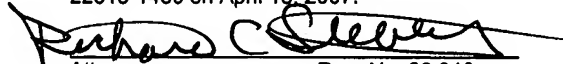
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Roy Knechtel and Andrej Lenz  
International Appln. No. : PCT/DE2004/002638  
U.S. Application No. : 10/580,361  
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(BONDING) SEMICONDUCTOR WAFERS  
Docket : LEO 003 PA

MS PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria VA 22313

CERTIFICATE OF MAILING  
I hereby certify that this correspondence is being  
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Commissioner for Patents, PO Box 1450, Alexandria VA  
22313-1450 on April 18, 2007.

  
Attorney Reg. No. 28,046

Sir:

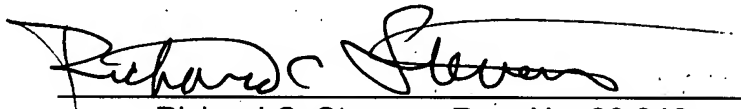
FILING OF REQUIREMENTS

Pursuant to the *Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US)* mailed February 20, 2007 in the above-identified patent application, enclosed herewith is 1) a translation of the application into English; 2) a copy of the *Notification of Missing Requirements*, and 3) payment in the amount of \$130 for the surcharge for providing the translation later than the appropriate 30 months from the priority date.

Also submitted herewith is a Preliminary Amendment.

Respectfully submitted,

STEVENS & SHOWALTER, L.L.P.

  
Richard C. Stevens, Reg. No. 28,046

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RECEIVED FEB 23 2007



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/580,361	Roy Knechtel	LEO 003 PA

INTERNATIONAL APPLICATION NO.	
PCT/DE04/02638	
I.A. FILING DATE	PRIORITY DATE
11/29/2004	11/28/2003

29673  
 STEVENS & SHOWALTER LLP  
 7019 CORPORATE WAY  
 DAYTON, OH 45459-4238

CONFIRMATION NO: 1718

371 FORMALITIES LETTER



\*OC000000022555700\*

Date Mailed: 02/20/2007

3/20/07  
 4/20/07 ✓

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 05/23/2006
- Copy of the International Search Report filed on 05/23/2006
- Copy of IPE Report filed on 05/23/2006
- Copy of Annexes to the IPER filed on 05/23/2006
- Information Disclosure Statements filed on 05/23/2006
- Oath or Declaration filed on 05/23/2006
- U.S. Basic National Fees filed on 05/23/2006
- Priority Documents filed on 05/23/2006
- Non-English Language Application filed on 05/23/2006
- Specification filed on 05/23/2006
- Claims filed on 05/23/2006
- Abstracts filed on 05/23/2006
- Drawings filed on 05/23/2006

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Translation of the application into English. Note a processing fee will be required if submitted later than 30 months from the priority date.
- Processing fee of \$130 for providing the translation of the application and/or the Annexes later than 30 months from the priority date (37 CFR 1.492(i)).

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 for English translation surcharge required.

Additionally the following defects have been observed:

- The translations of Annexes are canceled since the translations were not submitted prior to 30 months from the priority date.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

BARBARA A CAMPBELL

Telephone: (703) 308-9140 EXT 217

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/580,361	PCT/DE04/02638	LEO 003 PA